

# Project VERITAS

## Preliminary Design Review

Sponsor

PNNL

Client

Dr. Jessica Smith

Lead Instructor

Bruce Bolden



# Meet Team VERITAS



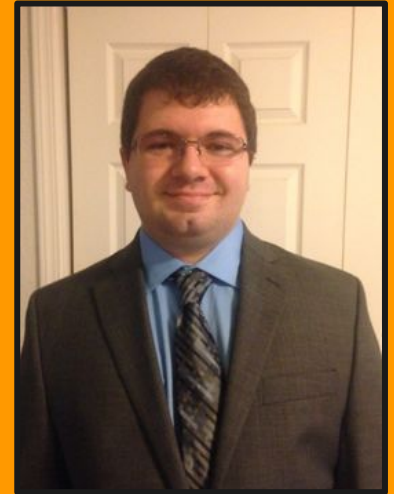
Alex Wezensky



Jocelyn Stadler



Animesh Pattanayak



Joel Doumit



# The Project

- Create a web interface to dynamically communicate with a database in a secure manner
- Three Main Components
  - Web interface design and implementation
  - Database design
    - Including how to simply edit the contents given the proper permissions
  - Communication protocols between the two



# Project Learning

- Our project revolves around writing lots of code in languages including
  - HTML5
  - CSS
  - JavaScript
  - PHP
  - SQL
- We were not all proficient in these languages
  - We had to learn the syntax of each language on the fly
  - As a problem arose, we had to learn how to resolve the issue



# Viable Designs

- Hover Design Concept
  - Pro
    - It would be very sleek
  - Con
    - Not very accessible for slower machines
- Dynamic Refresh Concept
  - Pro
    - Works well for any machine or operating system
  - Con
    - Requires large number of refreshes, uses lots of resources, slow
- Click Design Concept
  - Pro
    - Accessible, does not use as many refreshes, faster
  - Con
    - If data set is large, then the display page would scale linearly

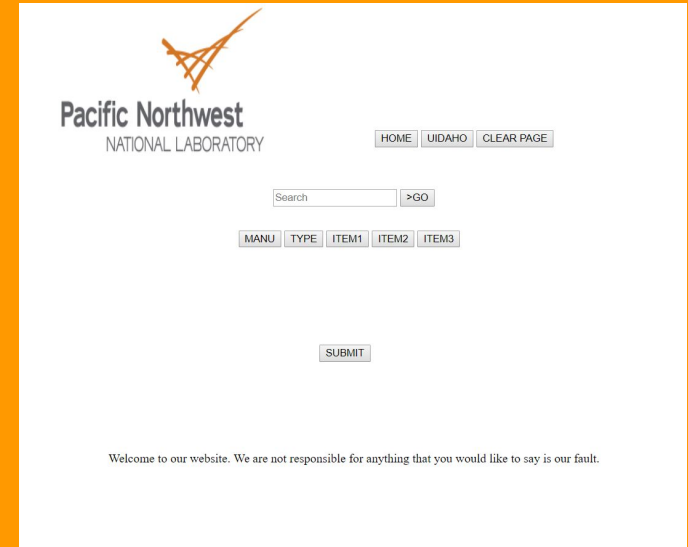


# Costs

- Recurring cost of Amazon Web Services
- Currently this cost is free based on resources needed
- Hosting costs will be covered by whoever picks up the project
  - PNNL
  - DOD

# Main Webpage

- Main Webpage
  - Designed initial contents of main page
  - Includes
    - Logo placement
    - Hot Links
    - Search Section
    - Dropdown Menus
      - Checkbox options



# Postcard View

- Have some information displayed on home page after search
- Enough to identify product, but still have room for multiple postcards
- Current features
  - Appears when submit button is clicked
  - Entire postcard is a link to the product's page

Name: Boeing 747 Type: Transport Description: Large passenger aircraft <a href="#">For more info, click here</a>	Name: Lockheed Martin F-22 Type: Raptor Description: Fighter aircraft <a href="#">For more info, click here</a>	Name: Bristol Scout Type: Antique Description: Old scouting 2 seated plane <a href="#">For more info, click here</a>
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Welcome to our website. We are not responsible for anything that you would like to say is our fault.



## Full Product Page

Separate webpage from initial view,  
accessed through small postcard

All information will be accessed using  
PHP to query the database using SQL

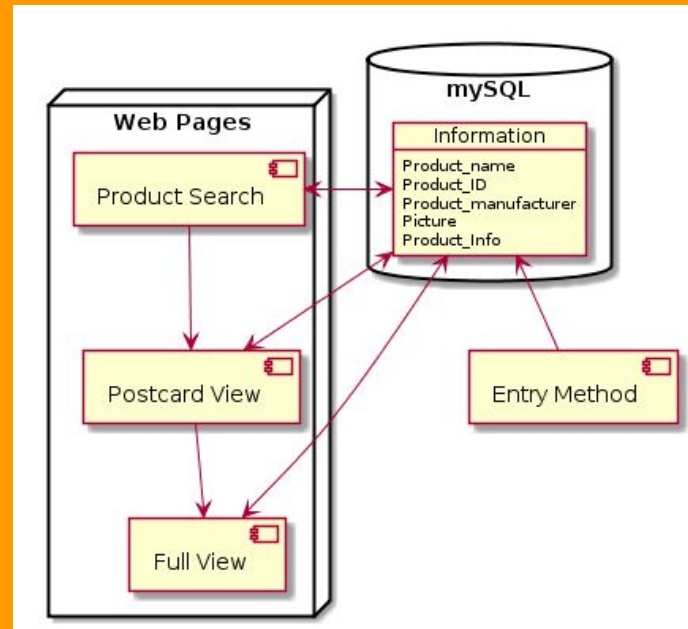
No way to edit database from this page

Includes : All product info in database  
for selected postcard



# Databasing

- Database design and querying.  
Language chosen: MySQL
- Each page will query the database and have its' fields dynamically updated.
- Entry to the database will be non-web-based.





# Schedule

**Nov.  
2017**

**Current Position**  
**Basic Prototype with clear**  
**project goals**

**Dec.  
2017**

**Basic Webpage**  
**Communication between**  
**Webpage and Database**

**Feb.  
2018**

**Beta**  
**Full working website with**  
**access to representative**  
**database**

**Apr.  
2018**

**Expo**  
**Final version due. Will hand**  
**project off to PNNL for**  
**summer work**



## Problems So Far

- Initially did not have resources
  - Communicated with sponsor and determined alternate route to allow work to begin
  - During this time, we were able to iron out some design specs and evaluate potential design concepts



# Questions?